

## ABSTRACT OF THE DISCLOSURE

A method of setting up a connection in a WDM transmission system with a number of switchable optical network nodes, of which at least one has a wavelength converter, wherein for setting up a connection from a first optical network node over at least one connection path section to an Nth optical network node, a first connection vector is formed for identifying WDM transmission channels available on the following connection path section and is transmitted over the at least one optical WDM transmission system and, in the at least one optical network node having a wavelength converter, a further connection vector is formed for identifying available WDM transmission channels on the following connection path section and is transmitted over the at least one optical WDM transmission system.